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← 6.2 kb

m 1 2 3 4 5 m

Figure 1

1 2' 3 4 5 6 7

Figure 2

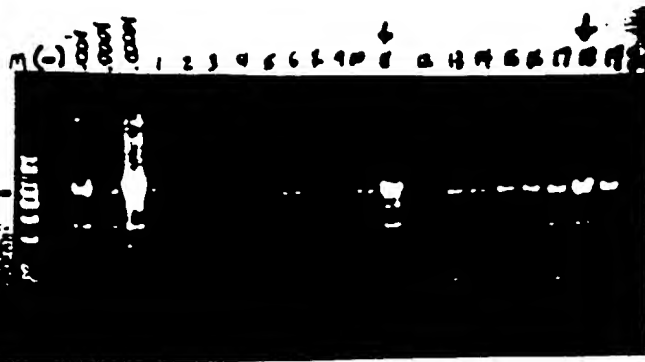


Figure 3

181619
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1
2
3
4
5
6
7

A B C

Figure 4

004030-ET07E000

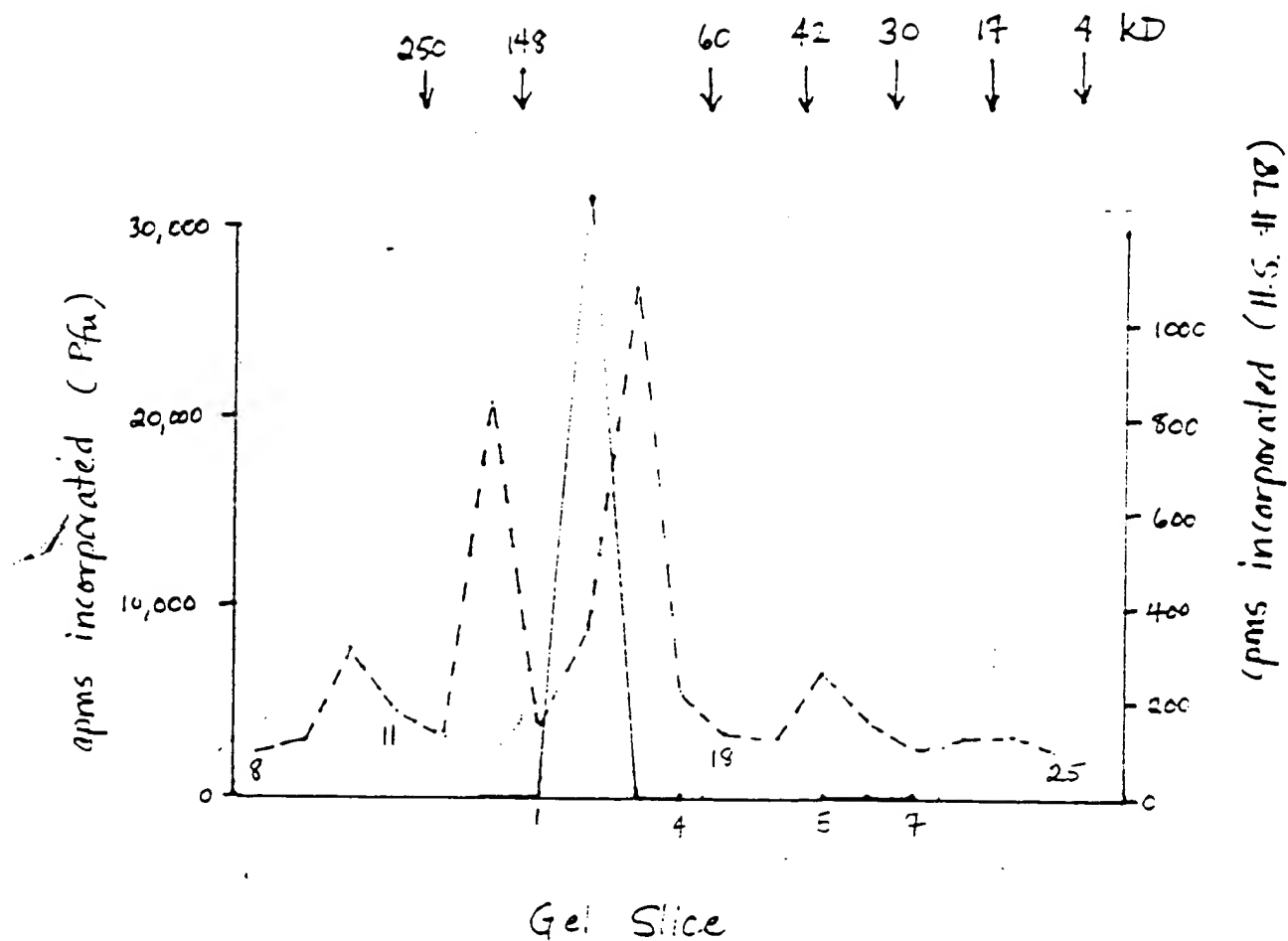


Figure 5

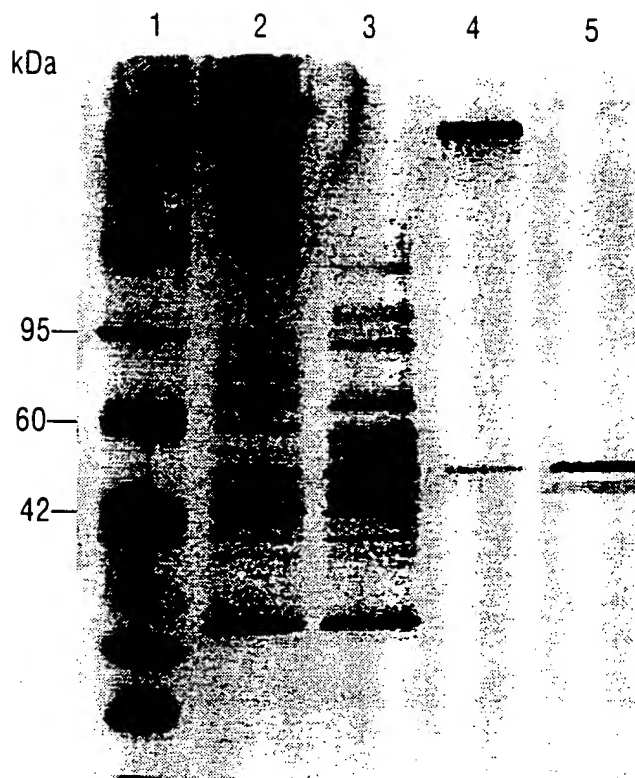


Figure 6

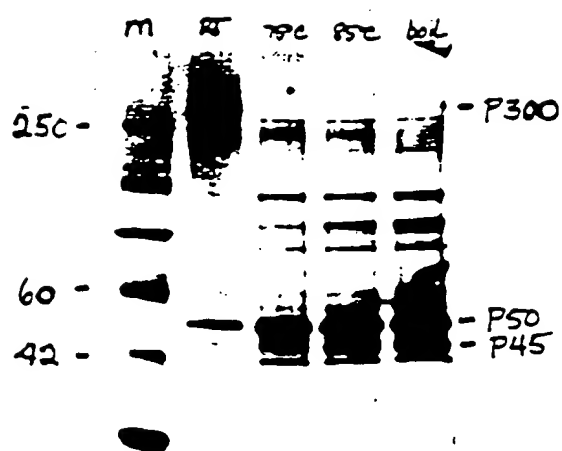


Figure 7

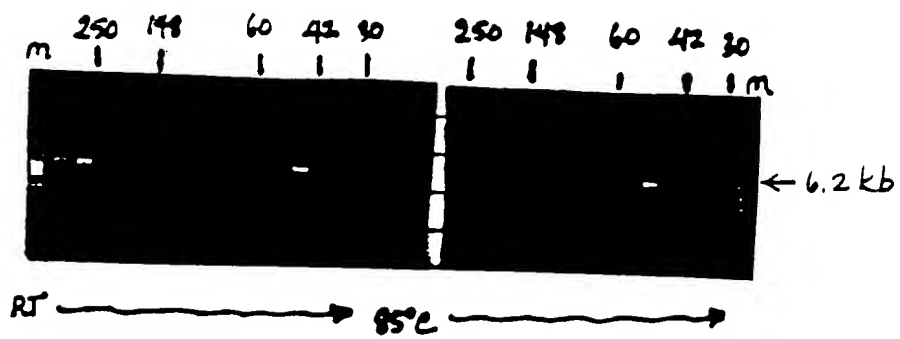


Figure 8

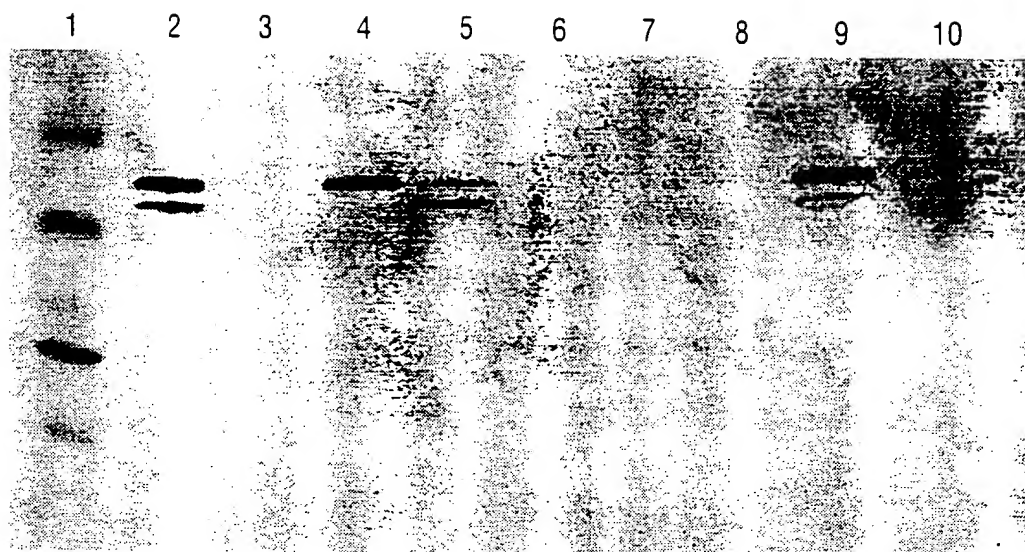


Figure 9

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

PSO
P45

PSO
P45

Figure 10

P50 →

m

- 250

- 148

- 60

- 42



Figure 11

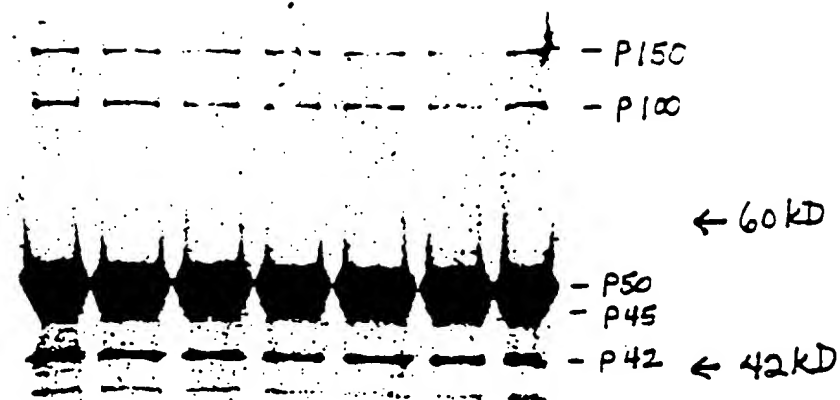


Figure 12

Figure 1 is a cyclic voltammogram showing the electrochemical behavior of riboflavin in a phosphate buffer solution. The plot displays current (A) versus potential (V) for three different concentrations of riboflavin: 9.6 μ M, 4.8 μ M, and 0.96 μ M. The potential range is from 0.30 V to -0.05 V. The current response is reversible, with anodic and cathodic peaks. The peak current increases with increasing riboflavin concentration.

Figure 13

5.2 Kb On/Off Assay

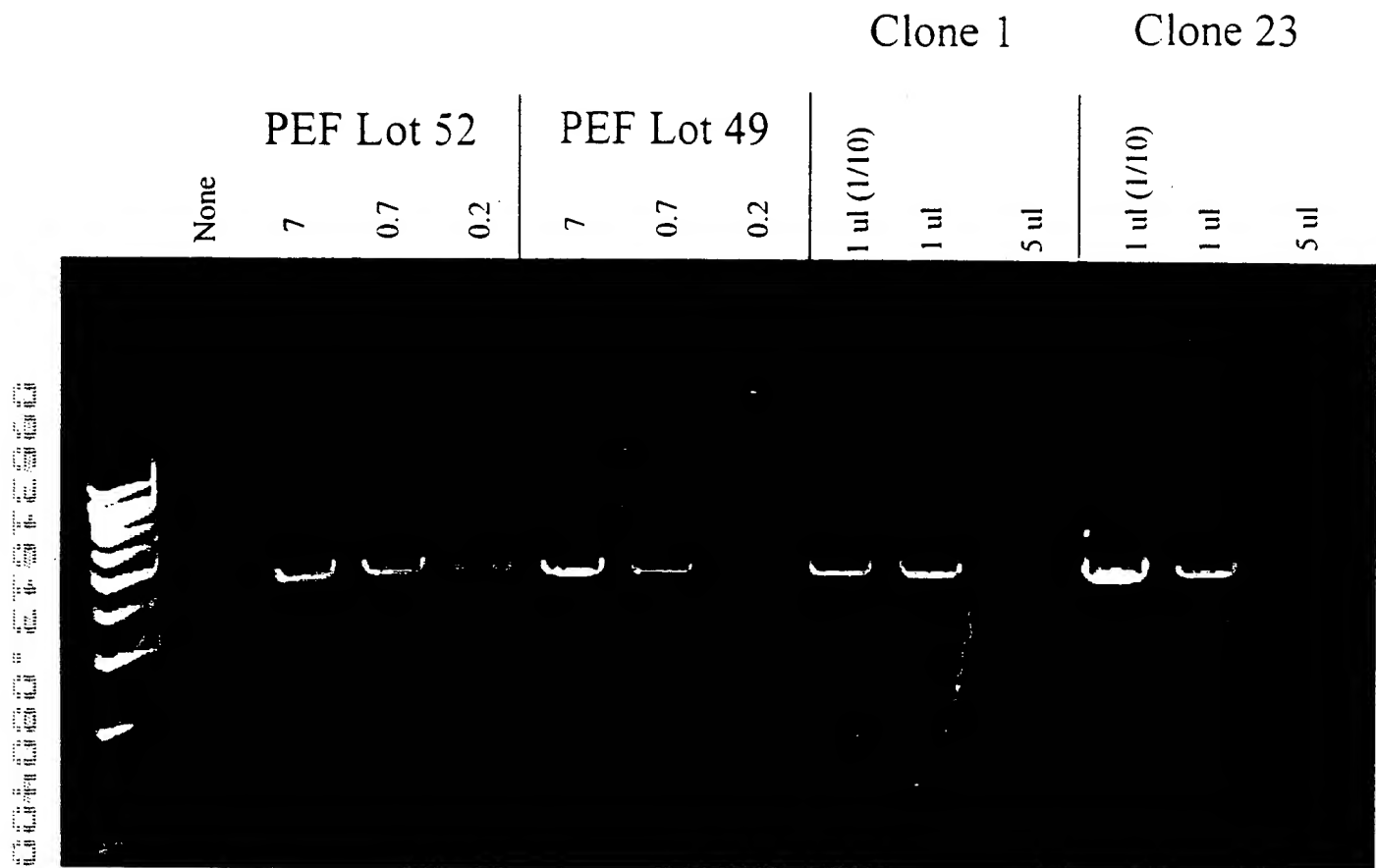


Figure 14

	Boiled	Unboiled
100 ng PEF	rp45 clone 1 rp45 cone 23	rp45 clone 1 rp45 cone 23
100 ng PEF boiled w/1%TCA		

55.4
36.5
31
21.5
14.4

6

Figure 15

0.407
1.017
2.007
3.000

9.281
1.003
2.130
3.083

0.407

10.007

0.017

12.117

0.407

1.007
2.007
3.000

4.000

5.000

6.000

7.000

8.000

9.000

10.000

11.000

12.000

13.000

14.000

15.000

16.000

17.000

18.000

19.000

20.000

21.000

22.000

23.000

24.000

25.000

26.000

27.000

28.000

29.000

30.000

31.000

32.000

33.000

34.000

35.000

36.000

37.000

38.000

39.000

40.000

41.000

42.000

43.000

44.000

45.000

46.000

47.000

48.000

49.000

50.000

51.000

52.000

53.000

54.000

55.000

56.000

57.000

58.000

59.000

60.000

61.000

62.000

63.000

64.000

65.000

66.000

67.000

68.000

69.000

70.000

71.000

72.000

73.000

74.000

75.000

76.000

77.000

78.000

79.000

80.000

81.000

82.000

83.000

84.000

85.000

86.000

87.000

88.000

89.000

90.000

91.000

92.000

93.000

94.000

95.000

96.000

97.000

98.000

99.000

100.000

4

The figure displays three stacked NMR spectra, each with its own set of chemical shift labels on the left and right sides. The top spectrum has labels 0.717, 1.833, 2.333, 2.917, 3.200, 6.000, and 9.603 on the left, and 1.833, 2.050, 2.333, 2.790, 3.017, 3.600, 4.633, 6.733, and 10.633 on the right. The middle spectrum has labels 1.833, 2.050, 2.333, 2.790, 3.017, 3.600, 4.633, 6.733, and 10.633 on the left, and 1.833, 2.050, 2.333, 2.790, 3.017, 3.600, 4.633, 6.733, and 10.633 on the right. The bottom spectrum has labels 1.833, 2.050, 2.333, 2.790, 3.017, 3.600, 4.633, 6.733, and 10.633 on the left, and 1.833, 2.050, 2.333, 2.790, 3.017, 3.600, 4.633, 6.733, and 10.633 on the right. The spectra show various peaks corresponding to these chemical shifts, with some peaks being more prominent than others.

Figure 17

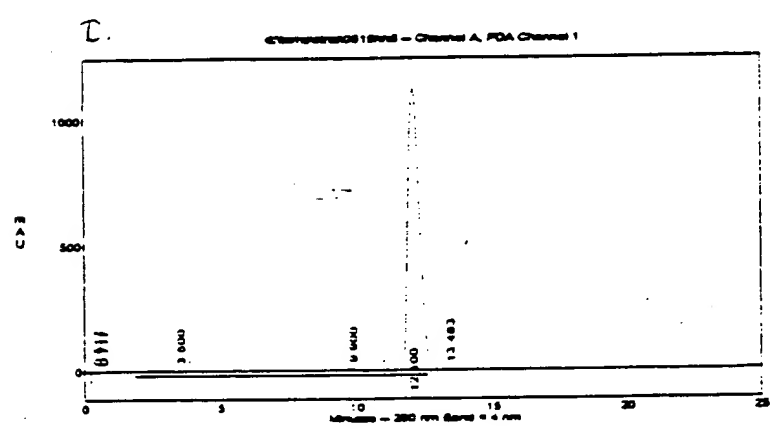
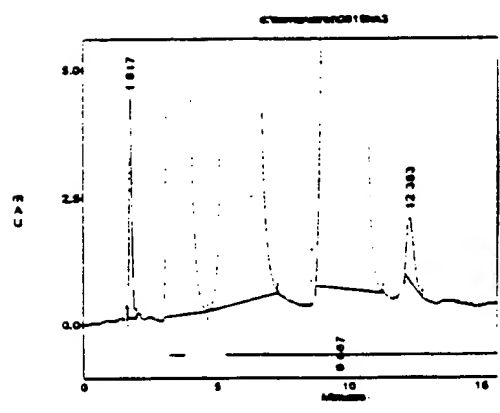
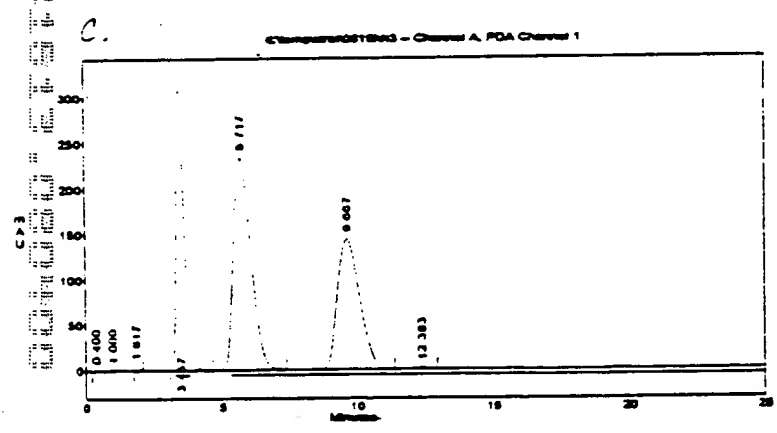
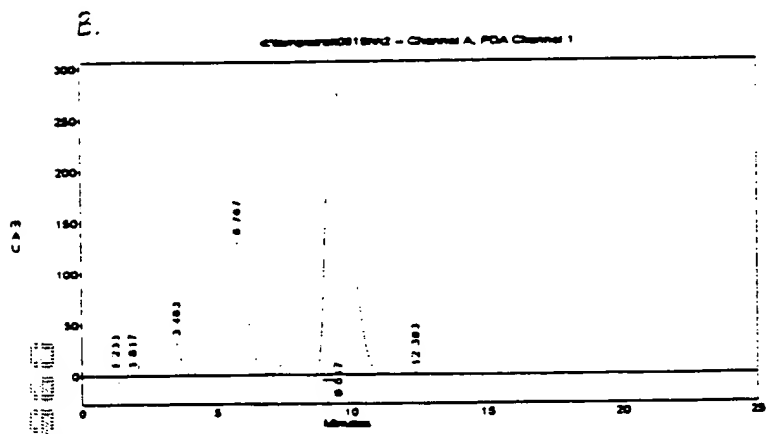
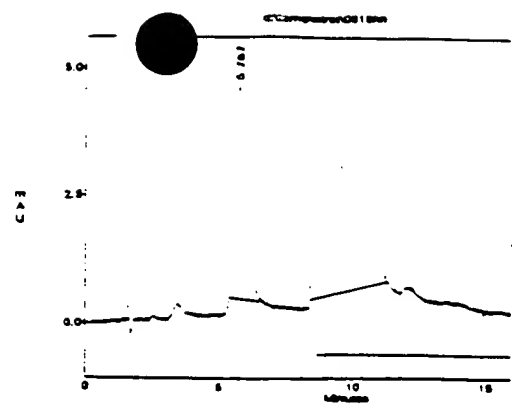
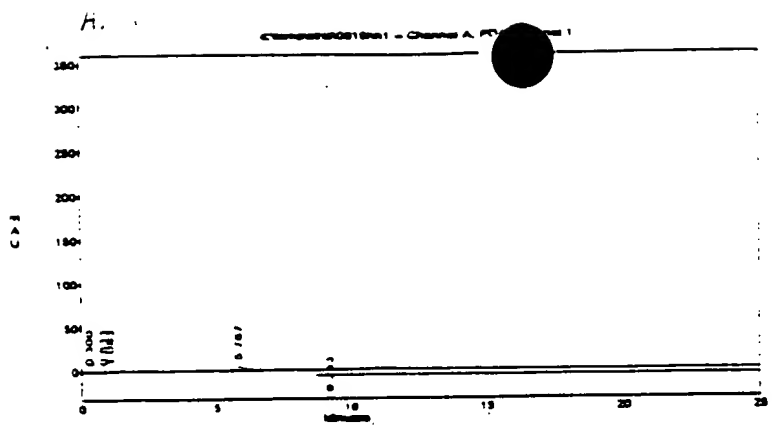


Figure 18

Overlaid Traces: Normalized

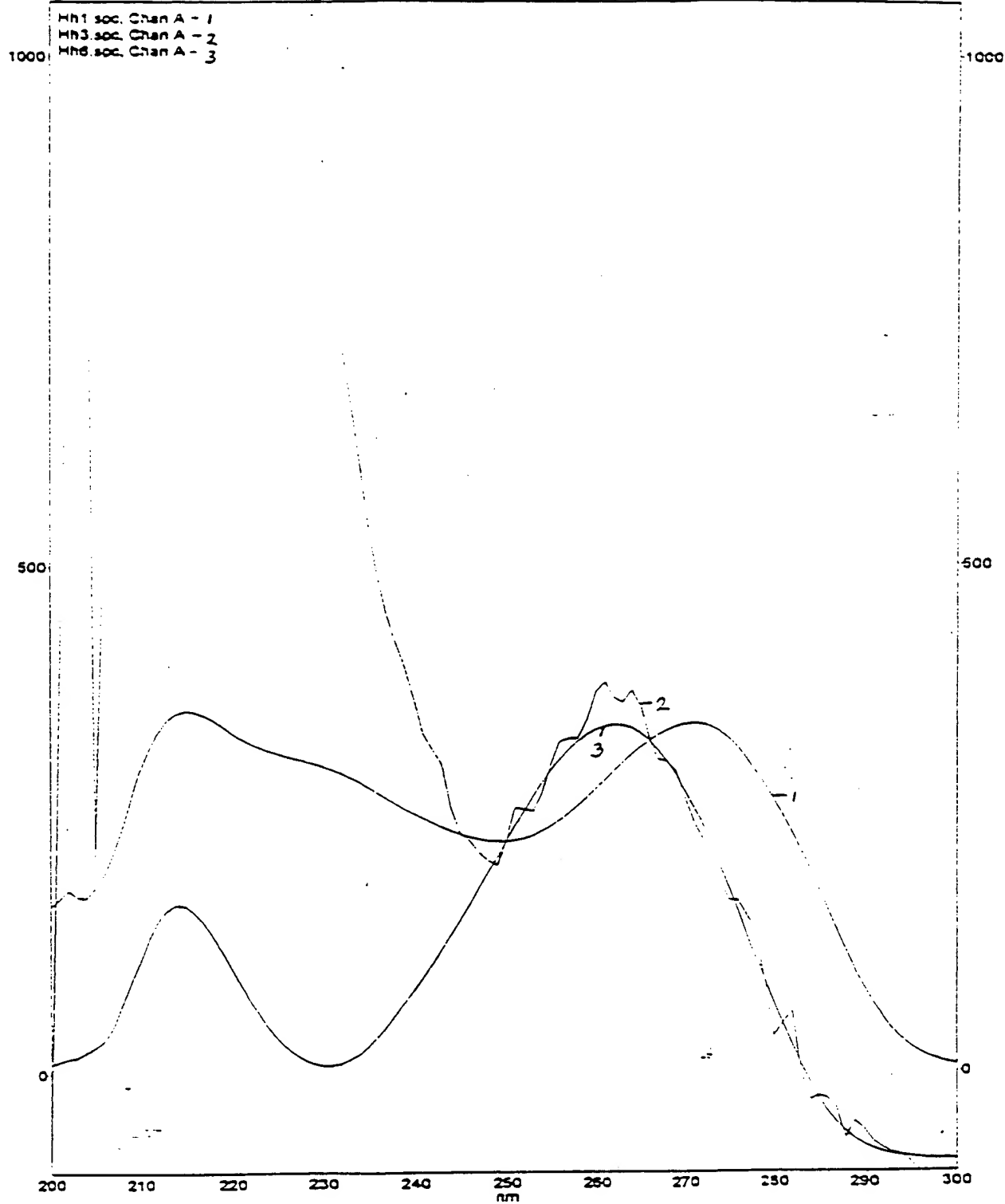


Figure 19

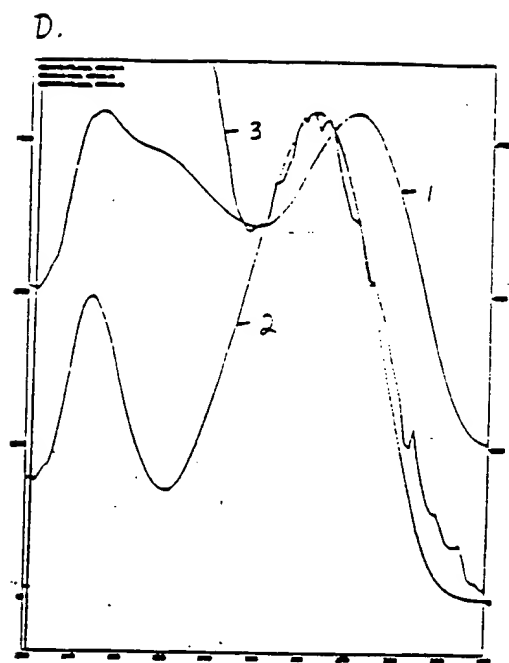
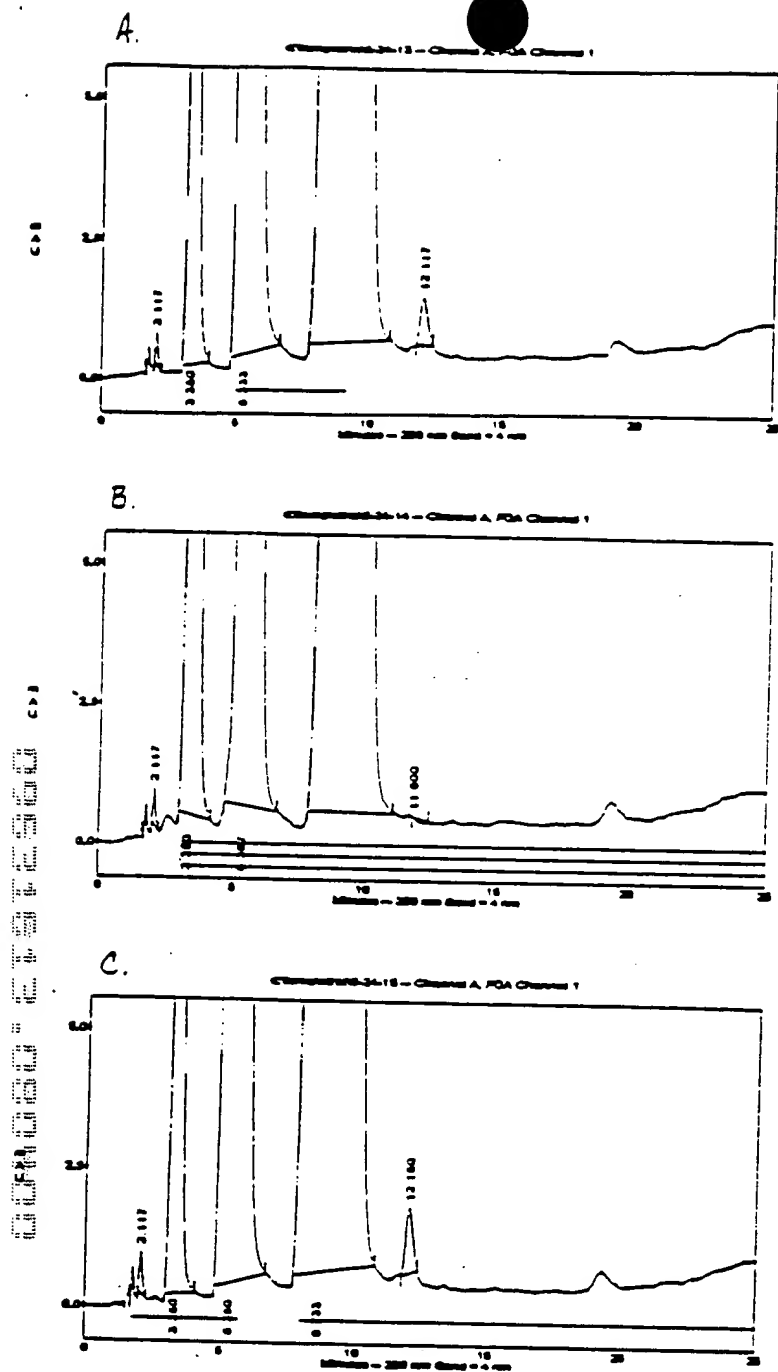


Figure 20

1 2 3 4 5 6 7 8 9 10 11 12 13

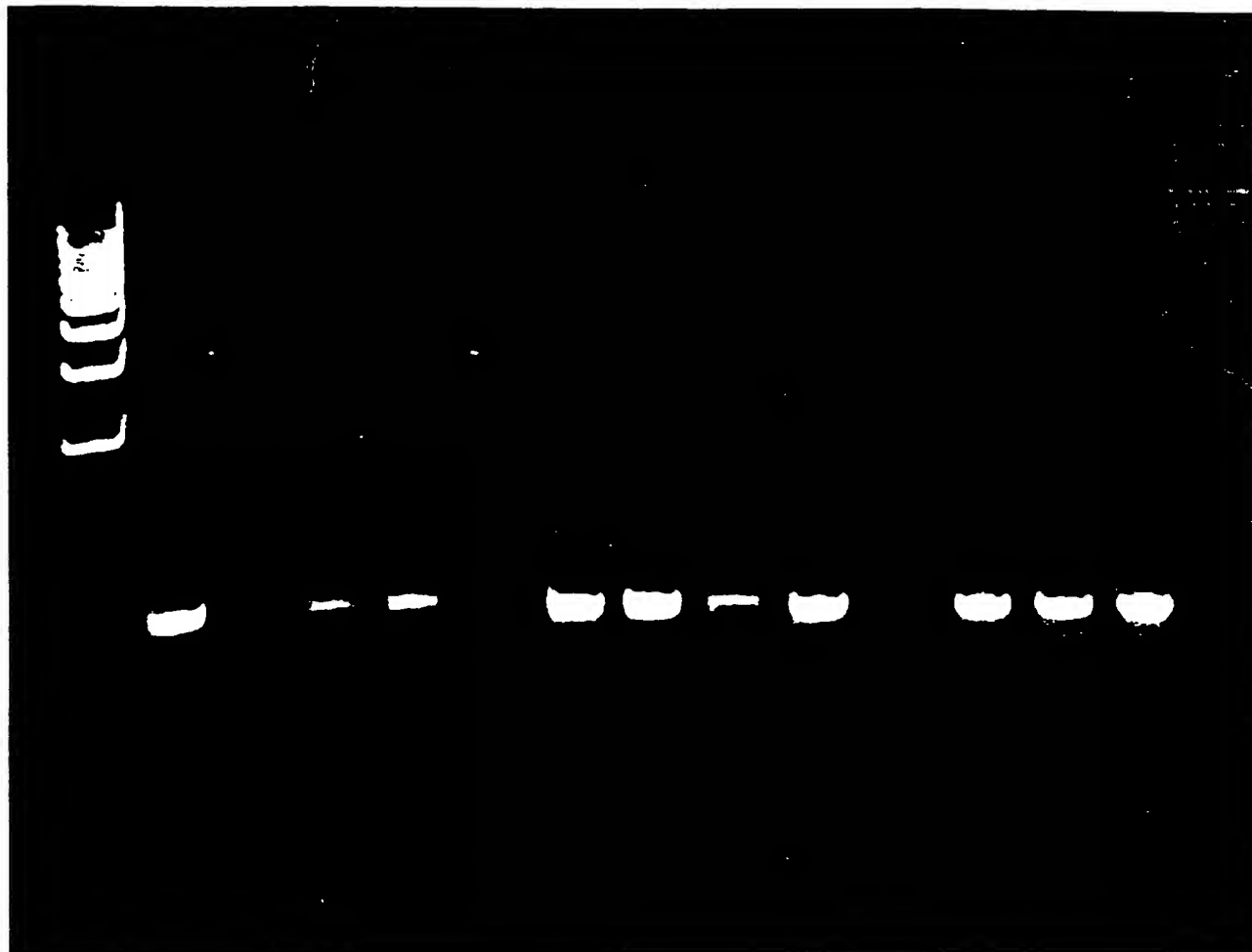


Figure 21

0040200" 27372360

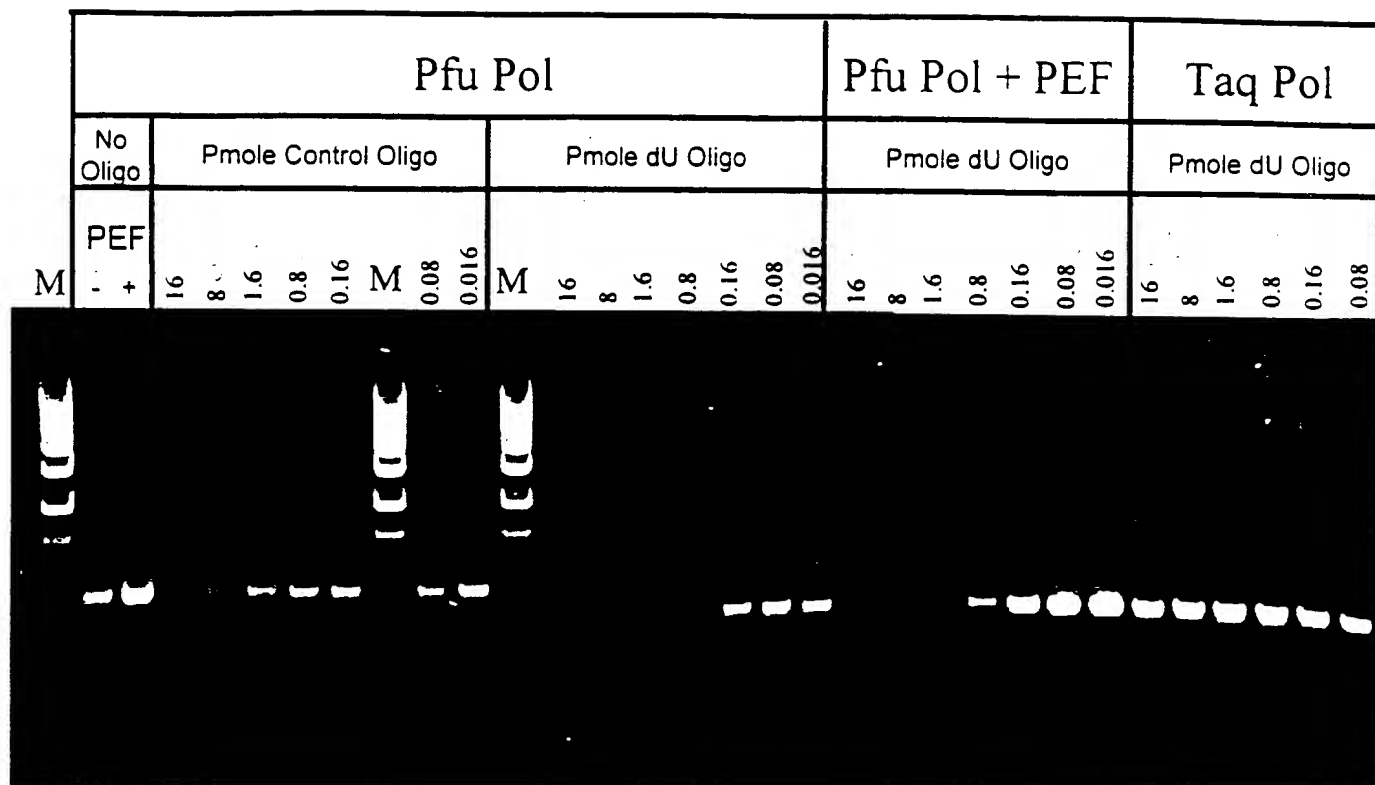
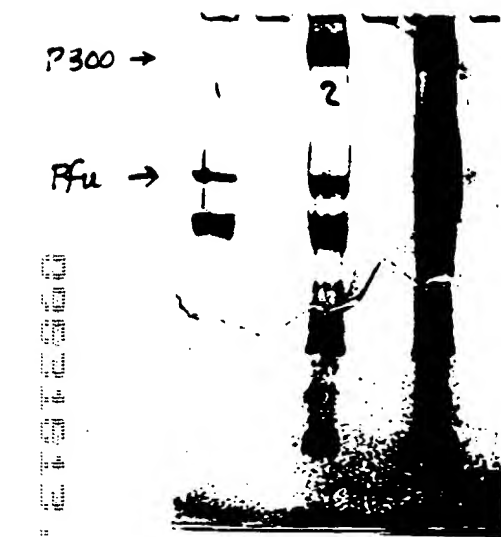
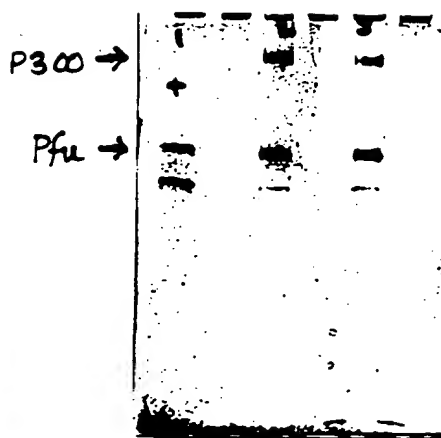


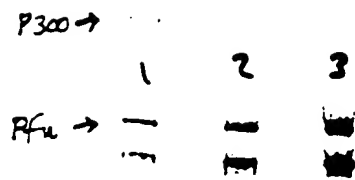
Figure 22



lot #	22	38	38
volume (uL):	10	5	10



	42	46	46
	10	5	10



	NA	41	41
	10	5	10

Figure 24

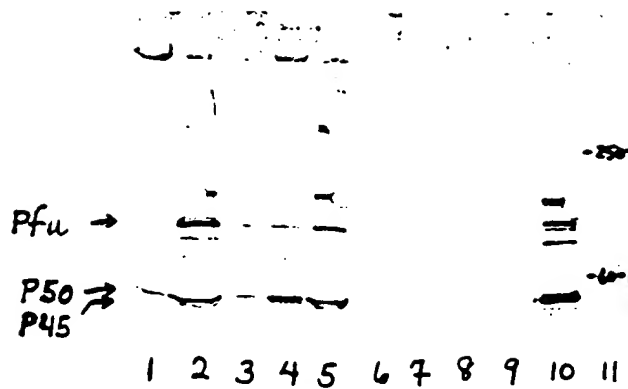


Figure 25

1 2 3 4

- 250

- 98

- 64

- 50

- 36

- 30

- 16

- 6

Figure 26

1 2 3 4 5 6 7 8 9 10

250 kDa →
98 kDa →
64 kDa →
50 kDa →
36 kDa →
30 kDa →
16 kDa →
6 kDa →

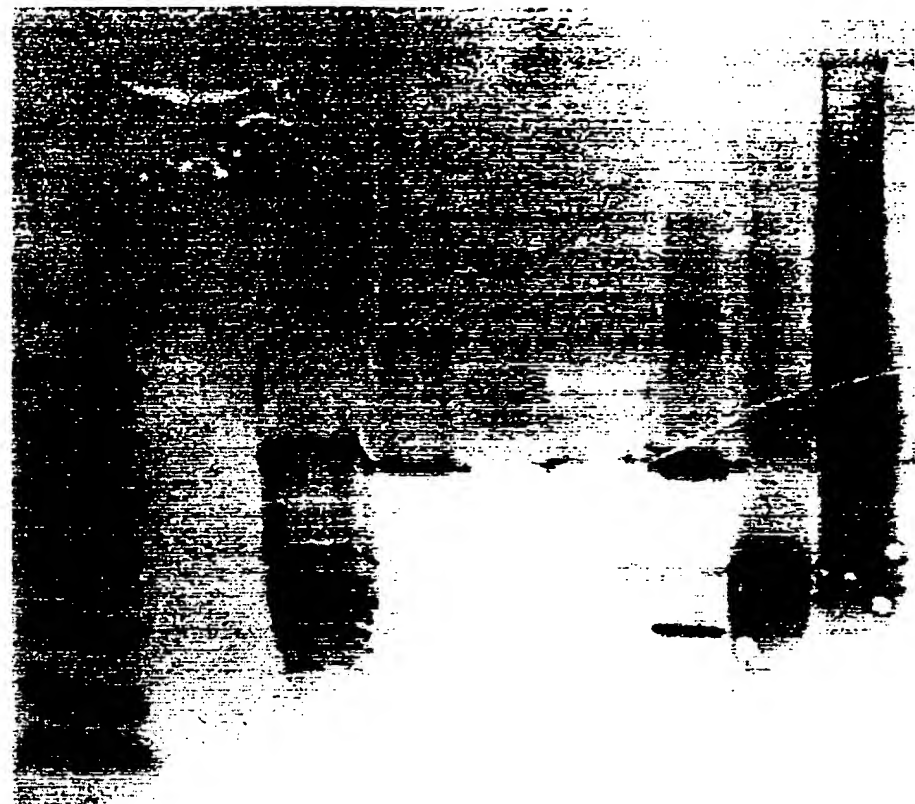


Figure 27

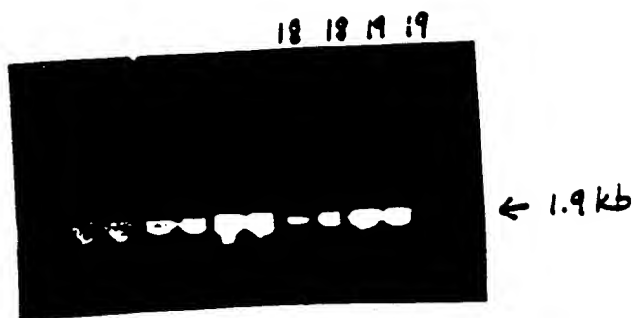


Figure 28

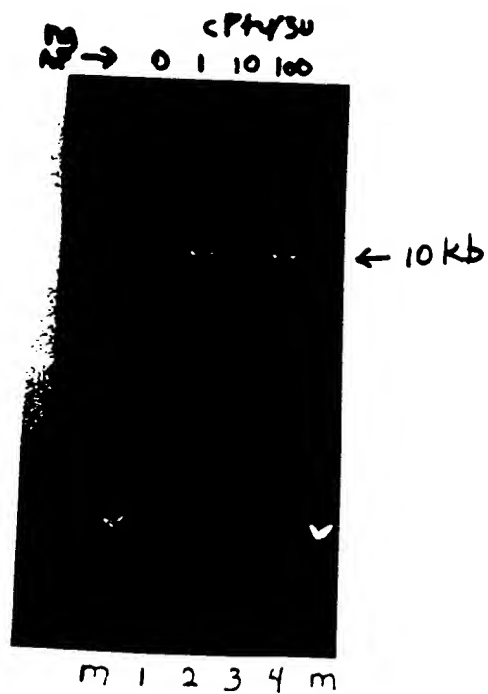


Figure 29

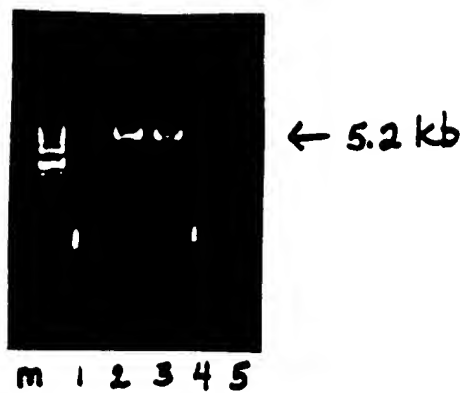


Figure 30

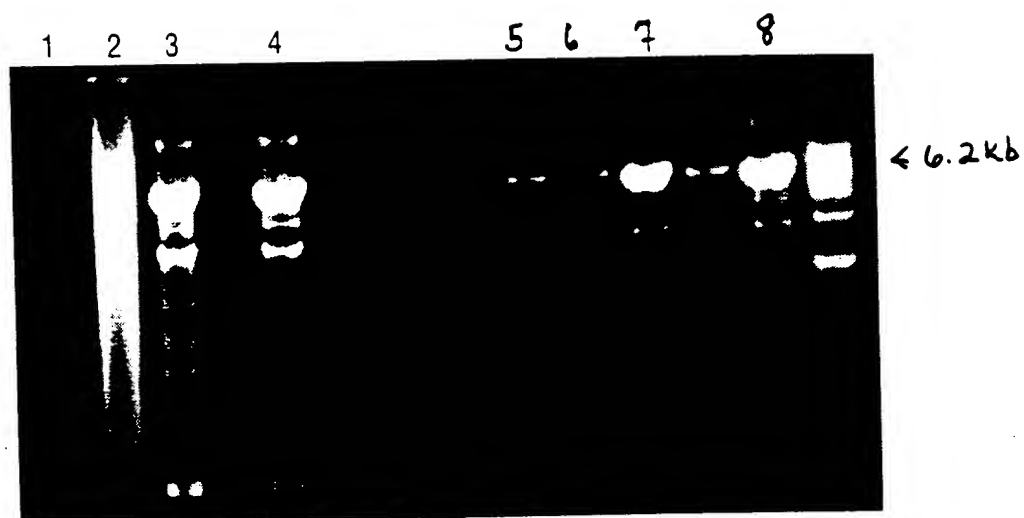


Figure 31



Figure 32

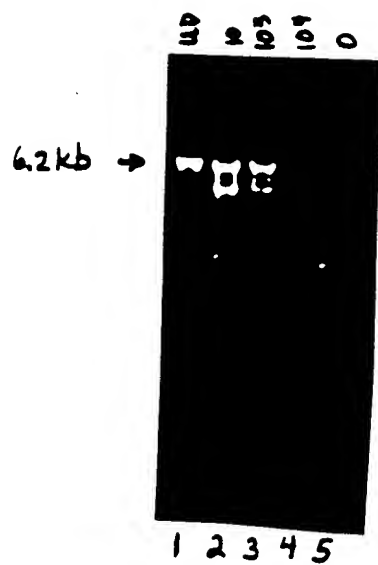


Figure 33

1 2 3 4 5 6 7 8 9 10

[illegible]

004000-000000

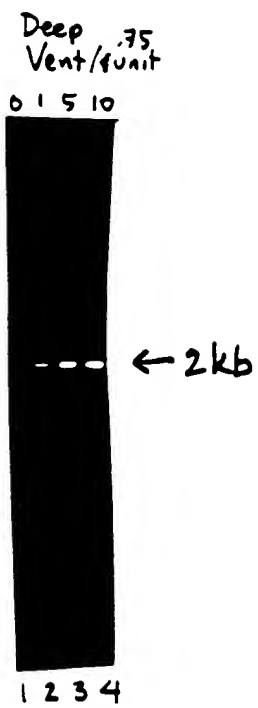


Figure 36

Figure 37

004000 000000



Figure 38

Pfu "PCR Enhancer" in QuikChange Mutagenesis

Linear Amplification Conditions				Transformation Results	
Pol.	Buffer	H.S. #71	Ampl. Prod.	#cfu	Mutants
nPfu (#38)	nPfu	0	+	84	95
		1μl	±	47	87
		.1μl	+	154	97
		.01μl	++	632	95
		.001μl	+	484	94
cPfu (#24A)	nPfu	0	+	94	89
		1μl	+	34	85
		.1μl	+	173	91
		.01μl	++	468	96
		.001μl	+	230	90

Figure 39

← 6.2 kb

Figure 40

004000" 07070000

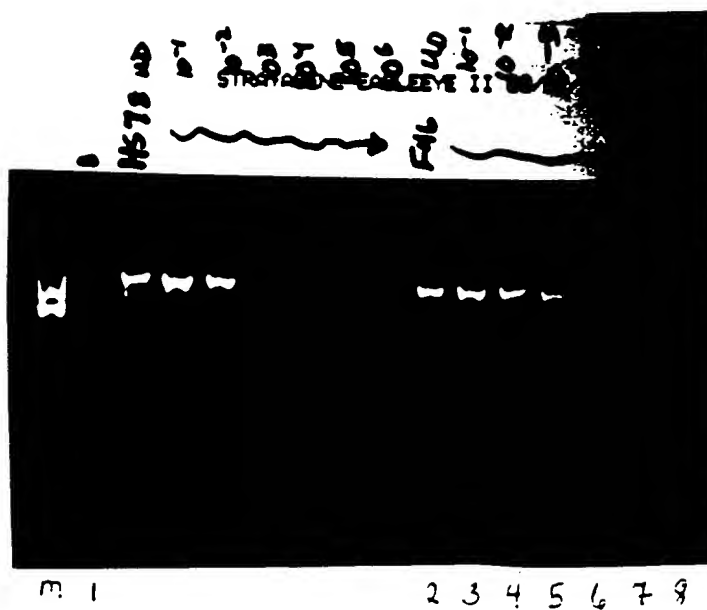


Figure 41

004000 000000



Figure 42

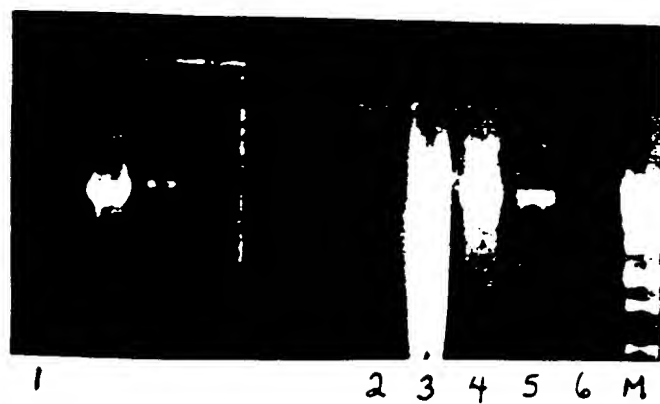


Figure 43

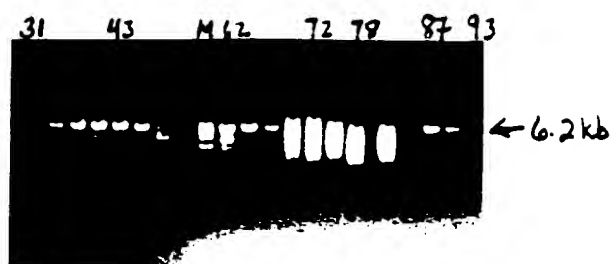


Figure 44